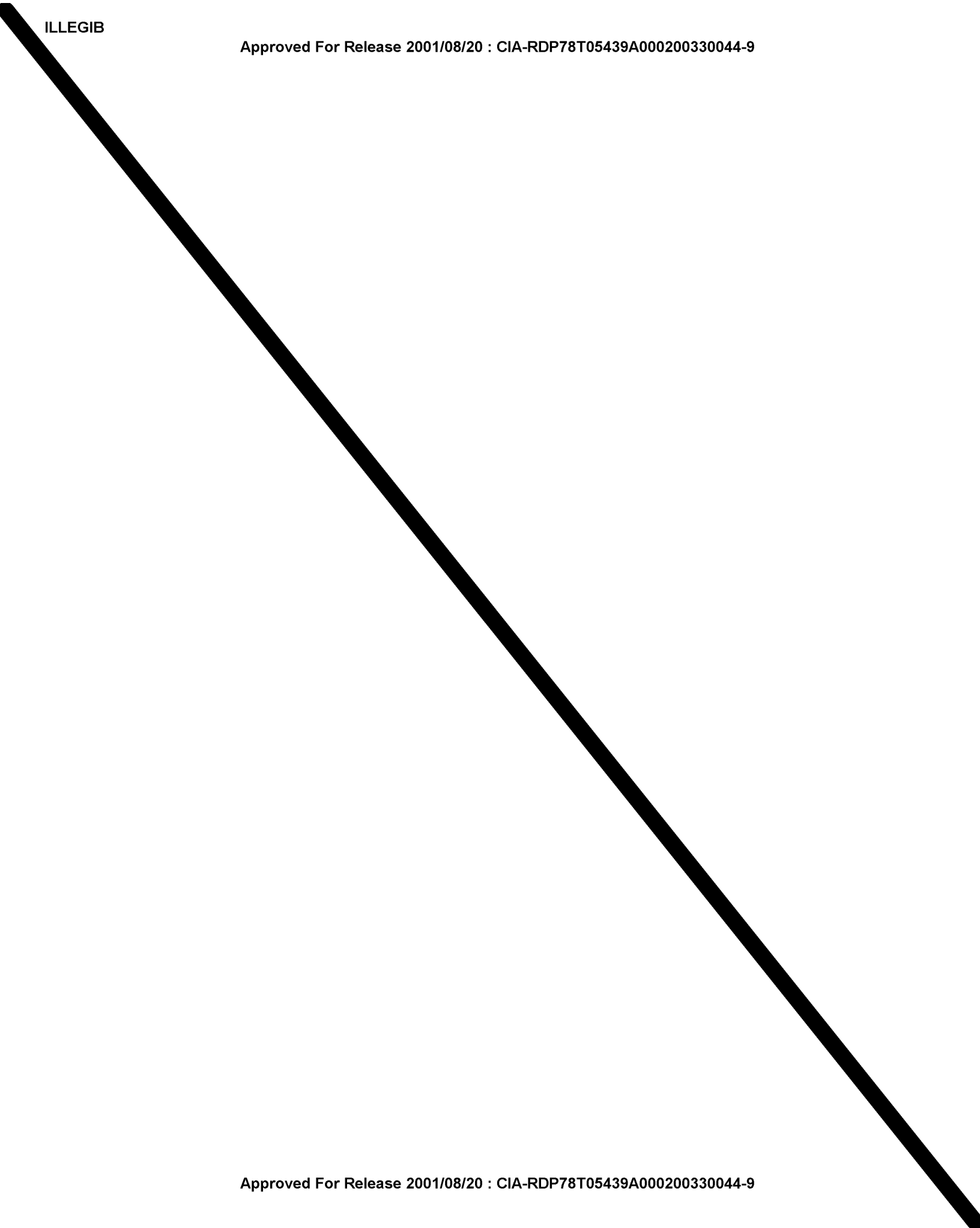

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NPIC/R-99/63

June 1963

PHOTOGRAPHIC INTERPRETATION REPORT

KURUMOCH ROCKET ENGINE TEST FACILITY: ORIGINAL TEST STAND

KURUMOCH, USSR

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S-9015

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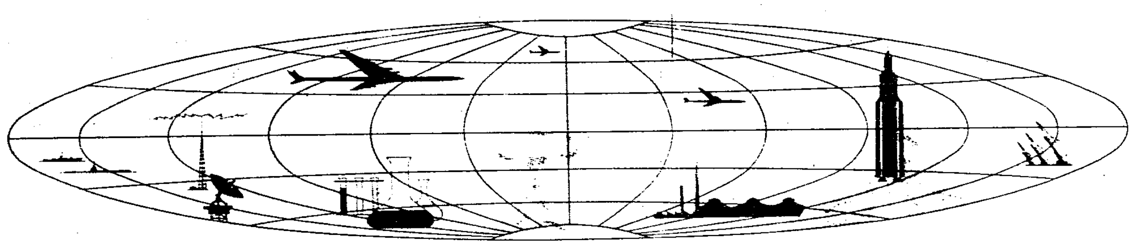

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KURUMOCH ROCKET ENGINE TEST FACILITY: ORIGINAL TEST STAND KURUMOCH, USSR

INTRODUCTION

25X1D

The original test stand at the Kurumoch Rocket Engine Test Facility, now operational, is described and measured from KEYHOLE photography of [redacted] The test stand is enclosed, precluding direct observation of the number of rocket engine bays contained within it. However, structural details are presented which may bear on the problem.

25X1A

The Kurumoch Rocket Engine Test Facility [redacted] is located at 53-31N 49-49E, eight nautical miles (nm) west-northwest of Kurumoch and 24 nm north-northwest of Kuybyshev (Figure 1). The original test stand is built in a ravine south of the operational support area. It was under construction when first observed on TALENT photography in [redacted] Such details as were visible at that time have been analyzed previously. 1/ 2/ 3/ The stand has been observed subsequently on KEYHOLE photography.

25X1D

25X1D

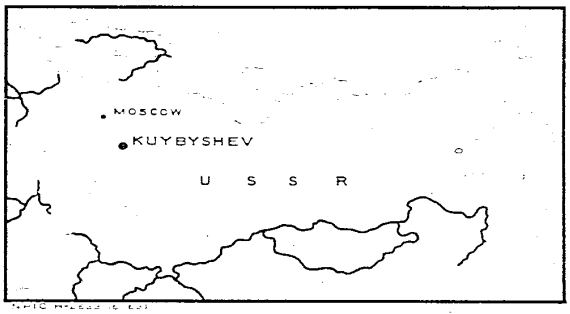

FIGURE 1. KUYBYSHEV, 24 NM SSE OF KURUMOCH ROCKET ENGINE TEST FACILITY.

STATUS

Blast marks in the snow indicate that the test stand was operational prior to KEYHOLE photography of [redacted]

25X1D

DESCRIPTION

(Figure 2)

The superstructure of the test stand is approximately 85 feet (east-west) by at least 75-80 feet (north-south). The superstructure thus overhangs the base structure by at least 10-15 feet, probably to the south. The stand rises at least 60 feet above the approach ramp, giving it an overall height of at least 140 feet above the pit. The superstructure is enclosed, precluding direct observation of the number of rocket engine test bays contained within it. Two possible structural members intersect at the center of the roof of the superstructure.

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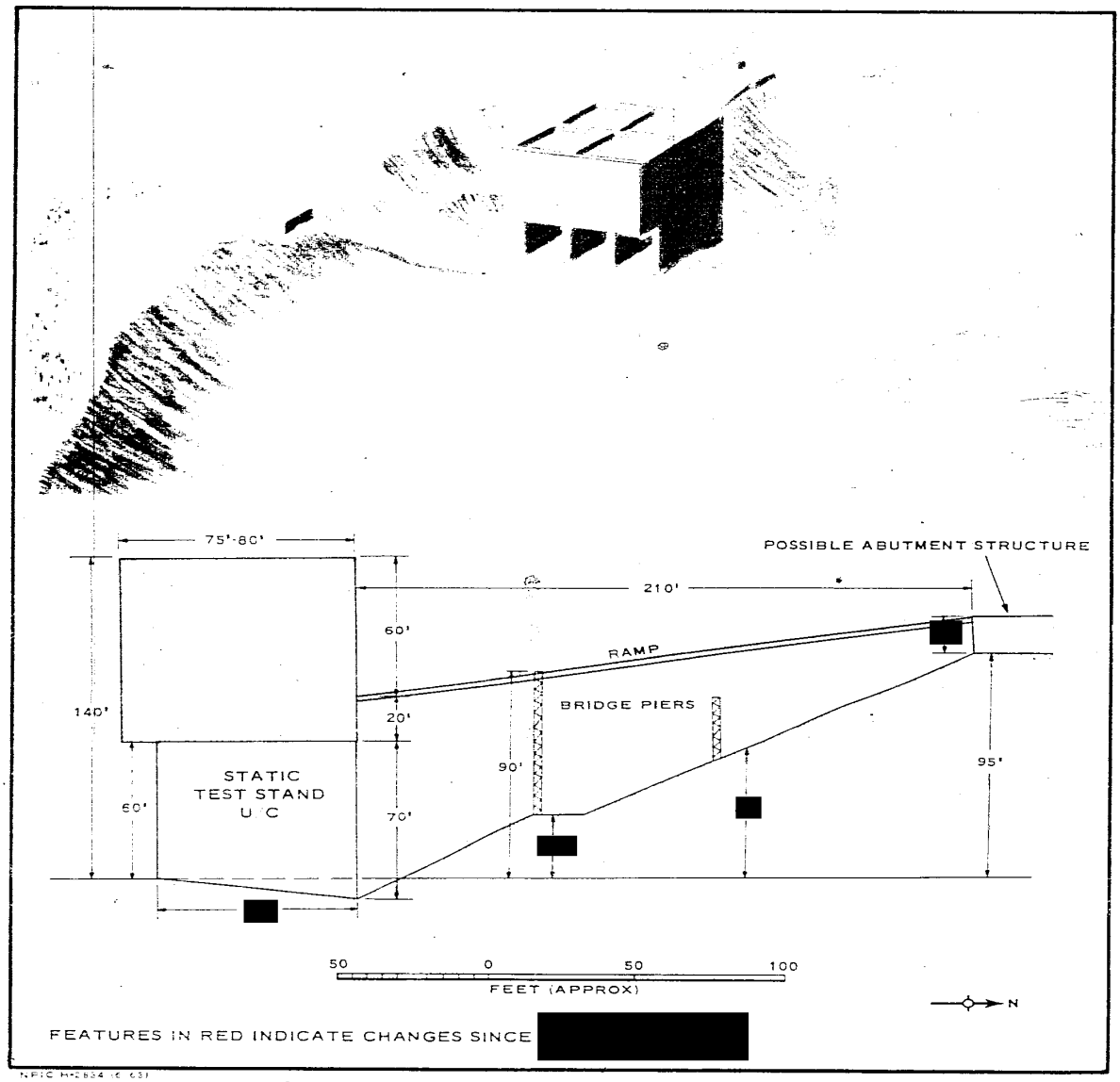

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FIGURE 2. STATIC TEST STAND, KURUMOCH ROCKET ENGINE TEST FACILITY.

25X1D

The base structure, under construction when observed on TALENT photography of [redacted]

25X1D

[redacted] was divided into three north-south bays by interior walls or columns. The protruding tops of these dividers and the outer walls measured

25X1D

approximately [redacted] Shadow detail indicated that the north wall was being enclosed. This shadow detail also indicated that the north ends of the exterior and interior supports were

25X1D

at least [redacted]

An approach ramp has been built to the stand from the north edge of the excavation, probably using the bridge piers and abutment

25X1D

structures seen in [redacted] A road entering the pit from the northeast services the base of the stand. A bridge extends from the probable control bunker down to the bottom of the pit.

Pertinent measurements are shown in the following table:

Table 1. Measurements of Original Test Stand, Kuramoch Rocket Engine Test Facility

		Dimensions (in ft)
Superstructure		
north-south	minimum	75-80
east-west	approximately	85
Base Structure		
north-south		[redacted]
east-west		85
wall widths (roof)	approximately	[redacted]
(north end)	at least	
Heights		
above ramp	at least	60
base (south elev)		60
base to ramp level	at least	20
overall height	minimum	140
	maximum	200
Distances (edge to edge)		
to operational buildings	approximately	575
to probable control bunker	approximately	150

25X

25X

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REFERENCES

PHOTOGRAPHY

25X1D [redacted]

MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0165-17A, 3d ed, Jan 60, scale 1:200,000 (SECRET)

DOCUMENTS

25X1C 1. CIA. PIC JR-1002 60, Propulsion Test Complex, Kurumoch, USSR, Nov 60 (SECRET Noforn [redacted]

25X1C [redacted]

3. USAF. ATIS-T-60-5, Kurumoch Rocket Engine Facility, 15 Sep 60 (TOP SECRET CHESS)

25X1D 4. NPIC. B-47 61, Propulsion Test Complex, Kurumoch, USSR; Changes [redacted] Dec 61 (TOP SECRET CHESS RUFF)

REQUIREMENT

Air. AFNIN 2-63

NPIC PROJECT

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